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The **FEMP MONTHLY UPDATE** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the **UPDATE** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The **FEMP MONTHLY UPDATE** is prepared for FEMP by Energetics, Incorporated, (202) 479-2748.

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Short Term Energy Outlook, Energy Information Administration (EIA), May 2003.

Motor gasoline prices have continued to decline for seven consecutive weeks since the March 17 peak of \$1.73 per gallon. The sharp decline in crude oil prices beginning mid-winter and the general belief that world oil supplies are secure has relieved pressure from the U.S. market. For the summer driving season, from April through September, regular gasoline is projected to average \$1.46, which is no more than ten cents above last year's average. Prices in California remain 45 cents per gallon higher than the rest of the U.S. as methyl tertiary butyl ether (MTBE) is replaced with ethanol.

Crude oil prices averaged \$28 in April, which is \$12 per barrel lower than two months earlier when anticipation for war in Iraq was high. On April 24, the Organization of Petroleum Exporting Countries (OPEC) raised quotas for its members, except for Iraq, by 0.9 million barrels per day. The new average total OPEC crude oil rate will result in 26.7 million barrels per day for the rest of 2003. Individual contributions of member countries will vary as Iraqi production is re-established and Nigerian and Venezuelan production returns to normal levels.

Due to low levels of natural gas storage this winter, natural gas prices have remained higher than previous years, fluctuating between \$4.90 and \$5.60 per million btu (mmbtu) this spring. An unusually warm summer could drive a mid-year spike in prices to \$6 mmbtu or higher.

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DID YOU KNOW?

Standard Market Design

On April 30, DOE released an assessment of price impacts, stability, infrastructure development, regional resource adequacy requirements, and other factors related to instituting FERC's Proposed Standard Market Design (SMD). The report, *Impacts of the Federal Energy Regulatory Commission's Proposal for Standard Market Design*, used quantitative and qualitative analysis to find that

CONGRESSIONAL ACTIVITIES

CONGRESSIONAL SCHEDULE

Congress recessed for the week of May 26 for the Memorial Day holiday. The House and Senate will return the week of June 2.

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STATUS OF PENDING APPROPRIATIONS BILLS OF INTEREST TO FEMP

FY 2004 Appropriations The Administration and the Republican Leadership in the House and Senate have been meeting to resolve the allocation of \$785 billion in FY 2004 funding (based on the non-binding budget resolution) among 13 appropriations subcommittees. Complicating the process is a proposed \$7.6 billion increase in spending for FY 2004 above the budget resolution level. Two options have reportedly been discussed: an across-the-board reduction in the "302(b)" allocations to each of the 13 subcommittees or a reduction between \$7 billion and \$10 billion in international and defense programs to support domestic programs.

STATUS OF PENDING AUTHORIZATION BILLS OF INTEREST TO FEMP

- Refer to www.eere.energy.gov/femp/resources/initiatives.html – Legislative Databases

HOUSE

Status of Comprehensive Energy Legislation

H.R. 6 – Energy Policy Act of 2003, was passed by the House on April 11. The House is waiting for the Senate to complete action on *S. 14 – Energy Policy Act of 2003*, before going to conference to negotiate differences between the two bills. Refer to the Legislative Database cited above for details.

FY 2004 Defense Authorization On May 22, both the House and Senate passed their respective versions of the *FY 2004 Defense Authorization* bill. No schedule has been announced for a House-Senate Conference Committee meeting to negotiate a resolution between the two bills.

DOE BULLETIN BOARD

the costs of implementing SMD are uncertain; however average wholesale prices are estimated to decrease by about 1 percent in 2005, and by about 2 percent by 2020. The generation and transmission component of retail prices would decrease by an average of about 1 percent. Market power inequities should not increase with SMD if an adequate infrastructure is maintained on a regional level, and regional market monitoring and market power mitigation are established and applied. The report reveals that the SMD rule could have a positive effect on investor confidence and infrastructure development. Locational marginal pricing, as established by the SMD, may lead to improvements in generation, transmission and distribution adequacy. The SMD proposal would have a variety of impacts on states and electric utility regulation. To view the report, visit www.energy.gov.

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The May 19th issue of *INSIGHTS* reported committee-approved funding levels for military construction projects for both the House and Senate bills. However, [while the Senate approved the Committee on Armed Services funding level for military construction, the House increased funding as provided below.](#)

Division B – Military Construction Authorizations

Army - \$3.056.697 billion

- \$902 million for construction projects inside the U.S.
- \$359.350 million for construction projects outside the U.S.
- \$20 million for unspecified minor construction projects (*same as Senate bill*)
- \$128.580 million for architectural and engineering services and construction design

- \$409.191 million for the construction, acquisition, planning and design, and improvement of military family housing units (*same as Senate bill*)
- \$1,043.026 billion for support of military family housing
- \$179 million for Phase 2 or 3 of various barracks projects currently under construction

Navy - \$2,288.917 billion

- \$1,005.882 billion for construction projects inside the U.S.
- \$114.569 million for construction projects outside the U.S. (*same as Senate bill*)
- \$13.624 million for unspecified minor construction projects (*same as Senate bill*)
- \$71.147 million for architectural and engineering services and construction design projects
- \$184.193 million for construction and acquisition, planning and design, and improvement of military family housing and facilities (*same as Senate bill*)
- \$852.778 million for support of military family housing

Air Force - \$2,477.609 billion

- \$660.282 million for construction projects inside the U.S.
- \$169.392 million for construction projects outside the U.S.
- \$12 million for unspecified minor construction projects (*same as Senate bill*)

- \$115.421 million for architectural and engineering services and construction design (*same as Senate bill*)
- \$657.065 million for construction and acquisition, planning and design, and improvement of military family housing and facilities (*same as Senate bill*)
- \$834.468 million for support of military family housing

Defense Agencies - \$1,223.066 billion

- \$343.570 million for construction projects inside the U.S.
- \$152.017 million for construction projects outside the U.S.
- \$16.153 million for unspecified minor construction projects (*same as Senate bill*)
- \$8.960 million for contingency construction projects of the Secretary of Defense (*same as Senate bill*)
- \$66.834 million for architectural and engineering services and construction design
- **\$69.5 million for energy conservation projects (*same as Senate bill*)**
- \$370.427 million for base closure and realignment activities (*same as Senate bill*)
- \$350,000 for planning, design, and improvement of military family housing and facilities (*same as Senate bill*)
- \$49.440 million for support of military family housing (*same as Senate bill*)
- \$300,000 for credit to DOD Family Housing Improvement Fund (*same as Senate bill*)
- \$25.7 million for miscellaneous construction project

Guard and Reserve Forces Facilities - \$573.941 million (*acquisition, architectural and engineering services, and construction of facilities*)

- \$343.628 million for the Army
- \$184.55 million for the Navy
- \$104.742 million for the Air Force

The Office of Budget and Management (OMB) has issued a “Statement of Administration Policy” on *H.R. 1588*, commending the House for passing the bill with many provisions that are in line with the Administration’s policies. However, the statement “strongly opposes any change to the base realignment and closure authority,” which was passed by the previous Congress, authorizing a new round of military base closures. The OMB statement notes that if the final *FY 2004 Defense Authorization* bill includes a provision repealing the base closure authority, the Secretary of Defense will recommend that the President veto the bill.

SENATE

Status of Comprehensive Energy Legislation Continued consideration of *S. 14 – Energy Policy Act of 2003*, was put on hold the week prior to the Congressional Memorial Day recess. Senate Majority Leader, Tom Frist (R/TN), informed Pete Domenici (R/NM), Chair of the Committee of Energy and

Natural Resources, that the bill would not be placed on the Senate's calendar until early June. Chairman Domenici is spearheading passage of *S. 14* and has used the intervening weeks to meet with Republican and Democratic members to resolve differences. Chairman Domenici is concerned that despite the plan to debate the bill following the holiday recess, the proposed schedule may be interrupted by consideration of other bills. Senate Democrats and some Republicans have vowed to introduce a number of amendments (200 amendments or more) to the bill, which could further complicate debate and delay passage. Remaining controversial issues include utility restructuring, climate change, Corporate Average Fuel Economy Standards, and ethanol fuel. House and Senate Republican leaders hope to have a conference report before the month-long August recess.

On May 22, 2003, Secretary of Energy Spencer Abraham, testified before the Senate Subcommittee on Interior and Related Agencies (Committee on Appropriations). His testimony focused on the energy conservation and fossil energy portions of DOE's FY 2004 Budget Request. Secretary Spencer described the Department's six planning and budgeting goals for FY 2004, which include:

- Maintaining a safe, secure and reliable nuclear deterrent
- Controlling nuclear proliferation
- Reducing dependence on energy imports
- Achieving a cleaner, healthier environment
- Improving our energy infrastructure to ensure the reliable delivery of energy
- Maintaining a world-class scientific research capability

Secretary Abraham testified that DOE's Energy Conservation Program Management budget request includes funding for executive and technical direction, information, analysis, and oversight required for efficient and productive implementation. With respect to the Office of Energy Efficiency and Renewable Energy's request for the Building Technologies program, the Secretary said:

EERE's buildings technology R&D programs address technologies, techniques and tools to make residential and commercial buildings, both in existing structures and new construction, more energy efficient, productive and affordable. Strategies include system R&D to reduce overall residential and commercial building energy use, R&D focused on energy end uses such as water heating, food refrigeration, and clothes washing, and the development of building energy efficiency codes and national equipment energy efficiency standards...

...Recommendations included refocusing R&D funding on long-term, high-risk, potentially high-payoff activities; evaluating potential duplication of Building program activities funded via the Energy and Water appropriation; and developing better performance measures. The request begins to address these recommendations.

For more information on this hearing, visit the Senate Committee on Appropriations web site at: appropriations.senate.gov/subcommittees/record.cfm?id=204147

S. 1548 – Military Construction, was incorporated into the overall Senate bill, *S. 1550* as "Division B – Military Construction Authorizations." In "**Division A, Title VIII – Acquisition Policy, Acquisition Management, and Related Matters, Subtitle G – General Contracting Authorities, Procedures, and Limitations, and Other Matters**," the bill includes the following section of interest:

- **Sec. 863. Multiyear Task and Delivery Order Contracts (f) Multiyear Contracts** – The head of an agency entering into a task or delivery order contract under this section may provide for the contract to cover any period up to five years and may extend the contract period for one or more successive periods pursuant to an option provided in the contract or a modification of the contract. In no event, however, may the total contract period as extended exceed eight years.

For additional details on *H.R. 1588* and *S. 1548 (S. 1550)*, refer to the May 19th issue of *INSIGHTS: 108th Congress* at www.eere.energy.gov/femp/resources/pdfs/051903insights.pdf ; to view the bills, refer to the Congressional web site at thomas.loc.gov.

Biofuels Caucus In late May, the Senate announced formation of the Biofuels Caucus “to provide a forum for senators interested in working together to promote the use and development of renewable fuels.” Of particular interest to the group is the establishment of a Renewable Fuels Standard in pending comprehensive energy legislation (*S. 14*). The goal of the proposed standard is to increase domestic use of renewable fuel from 2.6 billion gallons in 2005, to 5 billion gallons by 2012. The new caucus is a bi-partisan effort and includes members from four farm states, including Republicans Jim Talent (MO)) and Norm Coleman (MN) and Democrats Tom Harkin (IA) and Blanche Lincoln (AR). To learn more about the new caucus, contact Rich Chrismer at 202-224-4812.

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NEW LEGISLATIVE INITIATIVES OF INTEREST TO FEMP

- See [Attachment A](#) – New Legislation of Interest to FEMP

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HEARINGS OF INTEREST OF FEMP

- See [Attachment B](#) – Hearings of Interest to FEMP

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FEDERAL AGENCY ACTIVITIES

DEPARTMENT OF ENERGY (DOE)

EnergyStar® On May 14, the Department of Energy and the Environmental Protection Agency presented EnergyStar® awards to 18 Department of Veterans’ Affairs Medical Centers for their energy efficiency accomplishments. DOE Assistant Secretary David Garman, along with EPA Administrator Christine Whitman and Department of Veterans’ Affairs Secretary Anthony Principi participated in the ceremony, which was held at VA Headquarters. In presenting the awards, Assistant Secretary David Garman said, “Now more than ever before, it is critical that we provide federal leadership to save money through smart energy practices in our nation’s hospitals. These scarce resources can be better applied to serving the medical needs of our veterans and all Americans. For more information on award winners, go to www.energy.gov/HQPress/releases03/maypr/pr03102.htm.

Million Solar Roofs Initiative Small Grant Program for State and Local Partnerships In May, DOE announced plans to issue a new solicitation to support the agency’s Million Solar Roofs (MSR) Program. The purpose is to invite state and local partnerships to submit applications for financial assistance under the MSR program. Two types of grants will be available under the new solicitation:

- Phase 1--New Partnership Grants
- Phase 2--Meeting the Commitment Grants.

Subject to the availability of funds, multiple awards are planned, totaling \$1.5 million in FY 2003.. To obtain additional information, consult the *Federal Register* web site at:

<http://www.gpoaccess.gov/fr/index.html>

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WHITE HOUSE

Office of Management and Budget Nominations (OMB) On May 22, the President nominated Joshua Bolten to serve as the next Director of OMB, replacing Mitch Daniels. Mr. Bolten, who is currently a White House Deputy Chief of Staff has served as Director of Policy for the 2000 Bush-Cheney Presidential Campaign and prior to that, Mr. Bolten worked for Goldman Sachs International. Mr. Daniels resignation is effective June 6. In addition, Clay Johnson, the current White House Director of Personnel is under consideration by the Senate for the position of Deputy Director for Management at OMB.

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ATLANTA REGION

No news of interest to report.

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BOSTON REGION

No news of interest to report.

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CHICAGO REGION

No news of interest to report.

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DENVER REGION

No news of interest to report.

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PHILADELPHIA REGION

► *Utility/DSM Activities*

The General Services Administration is seeking sources to provide electric power to Federal facilities located in the State of New Jersey. The proposed contracts will be for a period of between 24 to 48 months, beginning in August and September 2003 to provide approximately 40 million kWh per year. **GSA has issued a second solicitation for approximately 70 million kWh of electricity for Federal facilities located in both the States of New Jersey and Delaware.** For additional information

on Solicitation Number GS-00P-03-BSC-0231 and Solicitation Number GS-00P-03-BSC-0230 respectively, contact Ken Shutika at 202- 260-9713.

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SEATTLE REGION

No news of interest to report.

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STATE AND LOCAL GOVERNMENT ACTIVITIES

ATLANTA REGION

No new information of interest to report.

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BOSTON REGION

► *General State Activities*

Massachusetts Governor Mitt Romney (R) introduced legislation to help offset the state's massive budget deficit. The proposal would use \$17 million generated from a monthly charge on electric bills and funneled into the state's Renewable Energy Trust Fund. In exchange, the bill would provide \$17 million for state agencies to purchase as much as 20 percent of their electricity from renewable energy sources over the next 20 years. (Source: *Green Marketing Monthly Update*, www.eere.energy.gov/greenpower/home.shtml)

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CHICAGO REGION

No new information of interest to report.

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DENVER REGION

► *Status of Utility-Related Activities*

The Western Area Power Administration (WAPA) recognized the contributions of several of their customers to energy efficiency and renewable energy projects. South Dakota's Energy Efficiency team, which includes the state Department of Corrections, Capitol Complex, Board of Regents, and Department of Human Services, won the Administrator's Award for Energy Efficiency and Renewable Energy. The projects collectively included more than \$370,000 in energy infrastructure investments, which resulted in reducing electric load by 700 kW, reducing total energy demand by 2.6 million kWh, and incurring a savings of more than \$100,000 in annual energy costs over the last two years through a matching-grant program. John Pankratz, an Energy Services specialist in WAPA's Upper Great Plains region said, "South Dakota's streamlined energy plan for state facilities, coupled with the innovative way to fund energy projects, is what sets them apart... State agencies worked together to develop and then

follow the plan. One step was to conduct lighting audits. That led to lighting upgrades based on project impact, system needs and available energy dollars.” Greg Vaselaar, Western Public Utility Specialist, said “South Dakota’s program is succeeding with tight budget constraints and limited manpower because the state and its institutions are committed to success... By working together, they’re able to get the most use out of taxpayer dollars and practice wise energy use.” (Source: www.wapa.gov)

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PHILADELPHIA REGION

No new information of interest to report.

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SEATTLE REGION

► *General State Activities*

The San Francisco Board of Supervisors has approved testing the feasibility of capturing energy from tides flowing in San Francisco Bay, deemed by city energy specialists as the best tidal resource in the western United States. Peter O'Donnell, an energy specialist with the City of San Francisco claims, "There's a potential to meet all the power needs of San Francisco over the next 10 to 15 years." The system would use tidal force to turn underwater turbines and potentially yield 2,000 MW each day. Project developers have agreed on a 1 MW energy production goal by 2006, derived from the tidal power. Other attempts to utilize tidal energy have harmed marine life. (Source: *Greenwire*, May 6, 2003)

An overestimation of the amount of money required by the State of California to recover its debt from the energy crisis of 2001, has led Governor Gray Davis (R) to propose a \$1 billion rate cut for Southern California Edison and San Diego Gas & Electric residential and business customers. The Governor's request will be reviewed by the Public Utilities Commission (PUC) and is expected to make a decision within 120 days on whether or not to grant the request. Even larger refunds may be possible if the Federal Energy Regulatory Commission rules that \$9 billion in contracts signed during the crisis may be credited to utility customers. (Source: *LCG*, May 14, 2003)

At a cost of \$7.11 million, the Haywood campus of California State University has commissioned a 1.05 MW rooftop and ground mounted solar electric installation, which is expected to be completed by July 2003. PowerLight Corporation is installing the 10,000 square foot system, which will provide 30 percent of the property's peak electricity over the summer. Richard Metza of California State University said, "The system will give the university a hedge against the fluctuating costs of energy and related supplies and will lower annual maintenance costs and increase the life of the buildings." The university has received partial funding for the project through a rebate from the Public Utilities Commission. According to Norma Rees, campus president: "With this solar electric installation, Cal State Hayward will have a cost-effective, reliable, non-polluting system that we're told will reduce our electricity bill by \$200,000 annually, and contribute to the region's overall environmental health." (Source: *Environment News Service*, May 9, 2003)

► *Status of Utility-Related Activities*

The California Public Utilities Commission (CPUC) approved a plan in early May to help protect the state from the threat of electricity blackouts and price spikes. The Energy Action Plan includes provisions to bring online, more renewable power sources, increase consumer energy conservation, build 2,000 megawatts of new plant capacity a year, and add renewable energy to boost supply. The bill would set up new regulatory authority; establish the position of State Energy Secretary; and abolish the California Energy Commission, the California Power Authority, and the Electricity Oversight Board.

Michael Peevey, CPUC President, hailed the plan as "a very aggressive program." (Source: *Reuters*, May 8, 2003)

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UTILITIES AND SUPPLIER ACTIVITIES

GENERAL ANNOUNCEMENTS

► *Restructuring Activities*

FPL Energy may build three wind energy projects in Pennsylvania, North Dakota, and Oklahoma, that will cumulatively add 135 megawatts of power to its portfolio by the end of 2003. Electric output will be sold to Exelon Corp, Otter Tail Power Company, and the Oklahoma Municipal Power Authority, respectively. FPL has also announced plans to build an additional 434 MW of wind generation in New Mexico, California, North Dakota, and South Dakota. (Source: *Green Marketing Monthly Update*, www.eere.energy.gov/greenpower/home.shtml)

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ATLANTA REGION

► *Restructuring Activities*

The South Cross Bayou Water Reclamation Facility in Pinellas County, Florida, has been redesigned by Synagro Technologies Inc. to recycle wastewater, air emissions, and sewage sludge entering the plant into environmentally friendly biosolids. Methane gas produced by the wastewater treatment process is used as a renewable energy resource. Ross M. Patten, Chairman and CEO of Synagro, said "'This is an excellent example of how public-private partnerships can be formed to address municipal biosolids management needs, environmental challenges and local community concerns." (Source: *E-Wire*, May 7, 2003)

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BOSTON REGION

► *Public Benefits*

Connecticut College and Trinity College in Connecticut will receive green power from EAD Environmental in the form of renewable energy certificates and greenhouse gas credits. Connecticut College will purchase 22 percent of its electricity needs from renewable sources, and Trinity College students purchased enough green power certificates to purchase renewable power to support the electricity needs for a campus event. EAD certificates may be purchased in 500-kWh blocks for \$7.50 or 1.5¢/kWh. (Source: *Green Marketing Monthly Update*, www.eere.energy.gov/greenpower/home.shtml)

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CHICAGO REGION

► *Restructuring Activities*

Two 950 kW wind turbines have been installed by the Southern Minnesota Municipal Power Agency to serve 18 municipally operated utilities in Southern Minnesota. The turbines will generate 5 million kWh or power annually, to be delivered to over 900 residential and business customers for a

charge of 2.9 cents per kWh to 3.5 cents per kWh. (Source: *Green Marketing Monthly Update*, www.eere.energy.gov/greenpower/home.shtml)

► *Public Benefits*

Over 80 municipal electric systems located in the States of Ohio, Pennsylvania, West Virginia, and Michigan that are served by American Municipal Power-Ohio, will receive renewable energy power provided by Green Mountain Energy Company. The renewable power will be provided under the Nature's Energy(R) program, at a cost of \$8 to \$10 more per month for the average customer. The program is part of a new Green Mountain Energy Company and Hometown Connections International offer to create public power renewable electricity programs. The renewable power will be derived from landfill gas and hydroelectric generators located in Ohio and other nearby states. Marc Gerken, President of AMP-Ohio said, "This is a great opportunity for customers in our member communities to purchase electricity from renewable sources, providing additional diversity in their generation portfolio and contributing to the development of new renewable energy resources in the region in the near future. We are excited to join with Green Mountain Energy Company to grow the number of customers choosing reliable, renewable power and to expand the demand for renewables in the region." (Source: *PR Newswire*, May 7, 2003)

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DENVER REGION

► *Public Benefits*

Renewable energy certificates from the Rosebud Sioux Tribe Wind Turbine Project on the Rosebud Sioux reservation in south-central South Dakota will be marketed by the Intertribal Council on Utility Policy (COUP) and the Rosebud Tribal Utility Commission to Ellsworth Air Force Base in South Dakota and NativeEnergy. The first large-scale Native American-owned and operated wind turbine in the country, the 750 kilowatt (kW) project will produce about 2,400,000 kilowatt hours (kWh) of clean electricity every year. The wind turbine will be interconnected to the grid through Cherry Todd Electric Cooperative. Pat Spears, President of Intertribal COUP, said that "The tremendous wind resources of the northern Great Plains have many Indian tribes looking at utility scale renewable energy generation as a "no-regrets" sustainable homeland economic development strategy, with a positive impact on CO₂ emission reduction. And the Rosebud Wind Project is leading the way in bringing tribal utility scale wind power on line." The Rosebud Wind Project was financed, in part, through funds generated by NativeEnergy's WindBuilders Program in which participants pay a premium on their electricity to subsidize the provision of wind-generated electricity. (Source: www.nativeenergy.com)

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PHILADELPHIA REGION

No new information of interest to report.

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SEATTLE REGION

► *Public Benefits*

Residential and commercial customers of the public utility, Emerald People's Utility District (EPUD) in Oregon, may receive the option to purchase 100 percent renewable power if current negotiations with Green Mountain Energy Company are successful. Green Mountain would provide sales and marketing tools, including a web-based sign-up tool and customer training, to help EPUD develop an efficient and cost effective green pricing program. The green power marketer would also provide the energy supply and management for the program. Karen Norris of Green Mountain said, "We

are excited about the possibility of working with EPUD to provide its customers the choice to purchase renewable electricity and help keep Oregon clean by reducing their household's share of carbon dioxide. This agreement would continue to move us forward along the path we have taken to change the way power is made. It would also enable us to expand our company's presence in Oregon." (Source: *PR Newswire*, April 17, 2003)

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MULTIPLE REGIONS

► *Restructuring Activities*

Electric customers in the State of Montana and the Pacific Northwest will receive power derived from a combination of wind and coal energy. Kiewit Mining Group (KMG) and Great Northern Power Development L.P. (GNPD), will engage in a 500 MW linked coal and wind project that will utilize lignite from a mine to provide low-cost and renewable power. Project developers will rely on the lower cost of coal to support the necessary financial upgrades to the transmission grid, while wind will improve the environmental performance of the project. The \$900 million project may come online as soon as 2008. The project will result in the upgrade of two existing transmission paths managed by the Western Area Power Administration and Northwestern Energy, which will enhance the reliability and stability of the region's transmission grid. (Source: *PR Newswire*, May 6, 2003)

► *Public Benefits*

Launched in 2000, Utah Power's Blue Sky program provides customers in Oregon, Utah, Washington and Wyoming the opportunity to buy renewable energy in 100-kilowatt-hour block increments. The utility recently filed a request with the Public Service Commission to reduce program rates from \$2.95 per 100-kilowatt hour block to \$1.95 because of greater customer participation, improved technology, and the reduced cost of acquiring renewable power. City managers in Moab, Utah are hoping that the reduced rates will spur 115 more customers to sign on as members of the program, a move that will elevate the city to "Blue Sky Community" distinction. And, if the City of Moab collectively purchases three percent of its energy demand from renewable sources, it will be recognized in EPA's Green Power Partner Program. (Source: Press Release, www.pacificorp.com, April 22, 2003)

PRIVATE SECTOR

GENERAL ANNOUNCEMENTS

SunWize Technologies and Global Solar Energy will sell a flexible folding photovoltaic module to the Federal Government and non-Federal entities. Global Solar Energy's Transportable AC Systems, Portable Power Packs™ and Solarized Temper Tents use Power Flex Modules™ made of thin-film copper, indium, gallium, diselenide material. The technology allows for molding to an irregular surface and a foldable, transportable design. Transportable AC Systems supply power for immediate use or for storage in a battery bank that ranges in power from 50 to 2800 W. Portable Power Packs™ provide small scale power, 12 to 56 W, in small chargers. Solarized Temper Tents mount on a 10-foot by 8-foot section of a standard tent fly. (Source: *Clean Edge News*, April 25, 2003)

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ATLANTA REGION

No news of interest to report.

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BOSTON REGION

Octagon Park Apartments of Roosevelt Island, New York, will feature a solar powered multi-family 500-unit apartment building by the end of 2004. New York State Energy Research and Development Authority (NYSERDA) is providing \$250,000 to install photovoltaic panels that will generate 50 kW to common areas. The New York Department of Environmental Conservation awarded \$6 million in Green Building Tax Credits. A geothermal well field, which uses the constant temperature of groundwater to heat and cool the building is planned, as well as super-insulated windows, walls, and roof. Natural gas microturbines will provide hot water for the well field and domestic hot water needs. The building will be 35 percent more energy efficient than the new State Building Code requirements as a result of these improvements. (Source: *Environmental News Service*, May 15, 2003)

In Boston, Massachusetts, PowerLight installed a 21.6-kW rooftop system on the Media and Technology Charter High (MATCH) School. Shell Solar supplied solar electric modules; the structure was designed by HMFH Architects, Inc. Solar Design Associates partnered with the International Brotherhood of Electrical Workers, Local 103 of Boston to manage the project to completion. The MATCH School won first prize in the category of solar electric buildings under the Northeast Green Building Awards Program for 2003, which is part of the Northeast Sustainable Energy Association's (NESEA) Building Energy 2003 Conference. (Source: PowerLight Press Release, April 17, 2003; *EERE Network News*, April 30, 2003)

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CHICAGO REGION

No news of interest to report.

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DENVER REGION

No news of interest to report.

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PHILADELPHIA REGION

In New Jersey, PowerLight completed a 500-kW solar installation on the roof of Janssen Pharmaceutica of Titusville and a BP installed a 275-kW in Paulsboro. The Paulsboro system is located on the site of a Jersey Clean Energy Program and the Virginia Alliance for Solar Energy. (Source: *EERE Network News*, April 30, 2003)

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SEATTLE REGION

Developers Henry Orlosky and William Buck Jones plan to build a 2,000-acre gated community in the Mojave Desert, California, where 600 dairy farmers and 90,000 cattle will produce renewable energy. Cow condos will be constructed with a plumbing system to channel excrement to a digester and extract methane for fuel. The methane could generate as much as 50 MW within the Harper Lake Energy Park or back to Southern California's grid. Included in the park are plans for a 550-acre solar power station and a pair of 400-MW natural gas-powered turbines. The estimated cost of the project is \$1 billion. (Source: *SFGate.com*, May 12, 2003; *Greenwire*, May 12, 2003)

Duke Solar Energy of North Carolina is building a 50 MW solar thermal electric facility in Nevada, which is expected to be operational in 2005. Solar trough technology, where sunlight is focused onto a pipe that circulates synthetic oil, will be used. Heated oil is routed to a heat exchanger to produce steam for use by a conventional electricity turbine. The Public Utilities Commission will allow Nevada Power and Sierra Pacific to sign contracts with the Eldorado Solar Electric Generating Station so that Nevada Power may purchase 68 percent of the 102.4 thousand MWh produced, and the remainder may be purchased by Sierra Pacific. (Source: *REFOCUS* May/June 2003)

In California, PowerLight has installed a 536-kW solar electric system in Torrance and a 120-kW system at a winery. The Torrance system is located in the headquarters of Toyota Motor Sales USA. The building is designated according to the Gold Level Certification of the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) green building rating system; the design exceeds California's energy efficiency target by more than 20 percent. The building incorporates direct-indirect lighting, high efficiency insulation, and thermally insulated glass. The facility also houses Toyota's hydrogen fueling and service station. (Source: *EERE Network News*, April 30, 2003)

Powerlight has also completed a 120-kW solar electric system at Domaine Carneros' new Pinot Noir winery in the Napa Valley. The array covers 9,400 square feet of the facility's rooftop and will provide thermal insulation to reduce air conditioning costs in the new facility. Once the system is fully operational, it will provide 40 percent of the winery's electricity. (Source: PowerLight Press Release, April 2, 2003; *EERE Network News*, April 30, 2003)

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ALTERNATIVE FUELS AND VEHICLES

GENERAL ANNOUNCEMENTS

► New Products and Services

FedEx, with Environmental Defense and the Eaton Corporation, has unveiled the FedEx OptiFleet E700, a low-emission, hybrid-electric powered delivery. Eaton Corporation will provide 20 hybrid-electric diesel delivery trucks to begin operation in four United States cities. The program has the potential to replace FedEx's 30,000 medium duty trucks over the next ten years. (Source: *Environmental News Service*, May 20, 2003)

General Motors (GM) will offer "displacement on demand" engine technology and "FlexPower" on several of the company's light-truck class of vehicles. GM estimates an eight percent increase in fuel efficiency for the 2005 model year GMC "Envoy" XL and XV models, and the Chevrolet TrailBlazer EXT that will have this "displacement on demand" technology. The FlexPower configuration will be offered with the Vortec 5300 engine in selected GMC and Chevrolet pickup truck models, for fleets in 2004 and for consumers in 2005 (Source: *CALSTART News Notes*, May 13, 2003; *CALSTART News Notes*, May 25, 2003)

Nueva Fuel Cells has announced a partnership with battery maker, FIAMM S.p.A., for joining development of a hybrid battery fuel cell power pack for industrial vehicles as early as 2005. (Source: *CALSTART News Notes*, May 14, 2003)

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ATLANTA REGION

No information of interest to report.

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BOSTON REGION

► *New Products and Services*

New York City Transit has completed reliability testing on an Orion VII bus equipped with BAE Systems “HybriDrive” propulsion system. This accomplishment allows for the delivery of 325 more of the advanced technology transit buses beginning later this year. (Source: *CALSTART News Notes*, May 5, 2003)

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CHICAGO REGION

► *Infrastructure Activities*

The Environmental Protection Agency is establishing a hydrogen fueling station at its National Vehicle and Fuel Emissions Laboratory in Ann Arbor, Michigan. The new station is expected to be operational by the end of 2003. (Source: *EERE Network News*, May 21, 2003; *E-wire*, May 19, 2003)

► *New Products and Services*

United Parcel Service (UPS) is testing a Mercedes Benz A-Class passenger vehicle powered by a Ballard fuel cell in Ann Arbor, Michigan. The vehicle, created as a result of a partnership with the Environmental Protection Agency and DaimlerChrysler, will be used for express delivery service in Ann Arbor by the end of this year. The zero-emission vehicles will be the first use of commercial fuel cell technology in a commercial delivery fleet in North America. In 2004, DaimlerChrysler will provide UPS with one or more fuel cell powered Dodge Sprinter delivery vans. (Source: *EERE Network News*, May 21, 2003; *E-wire*, May 19, 2003; *Greenwire*, May 20, 2003)

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DENVER REGION

No information of interest to report.

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PHILADELPHIA REGION

► *Infrastructure Activities*

Citgo opened the third E85 station for public use in Maryland. The fueling stations, located in Annapolis, was funded by a grant from the Department of Energy to the Maryland Energy Administration, and implemented by the Maryland Grain Producers Association. (Source: National Ethanol Vehicle Coalition Press Release, April 22, 2003)

The Department of Energy’s National Energy Technology Laboratory is seeking design and installation support for a new compressed natural gas refueling station in Morgantown, West Virginia. Contact Randy Cooper for additional information at 304-285-4160 and refer to Solicitation Number DE-RP26-03NT00364.

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SEATTLE REGION

► *AFV Fleet Acquisitions*

Long Beach Transit has authorized the purchase of 27 New Flyer transit buses using a gasoline-fueled hybrid-electric driver system from ISE Research-ThunderVolt. The engine is ULEV rated. (Source: *CALSTART News Notes*, May 5, 2003)

► *Infrastructure Activities*

An automated bike-commute facility,” Bikestation Seattle,” offers a range of clean transportation options in downtown Seattle, Washington. The facility features secure bicycle storage, automated bike rental, a daily bike repair service, electric scooters, access to car sharing, and direct links to public transportation. (Source: *CALSTART News Notes*, May 16, 2003)

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INTERNATIONAL

► *Infrastructure Activities*

Royal Dutch and Shell Oil have opened the world’s first hydrogen fueling station in Iceland. The station resembles a standard Shell gasoline fueling station and will provide fuel for three DaimlerChrysler hydrogen-powered buses in Reykjavik. The hydrogen is produced by electrolysis of water, using renewable energy derived from hydroelectric and geothermal sources. (Source: *Reuters*, April 24, 2003; *EERE Network News*, April 30, 2003)

► *New Products and Services*

As part of the European Fuel Cell Bus Project, Ballard Power Systems delivered the first zero-emission Mercedes Benz Citaro Bus, powered with a Ballard fuel cell engine, to public transport authorities in Madrid, Spain. The 205 kW Ballard fuel cell engine will be in the remaining 30 Citaro buses to be delivered over the next year to Amsterdam, Barcelona, Hamburg, London, Luxembourg, Madrid, Porto, Reykjavik, Stockholm, and Stuttgart. Ten hydrogen refueling stations are being established to fuel the buses in each destination city. (Source: *Environmental News Service*, May 5, 2005)

MAN Nutsfahrzeuge Group has announced a partnership with Ballard Power Systems to supply a fuel cell system for use in a city bus. The Munich Airport hydrogen project will use the bus, beginning operation in early 2004. (Source: *CALSTART News Notes*, May 20, 2003)

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MEETINGS, CONFERENCES, AND TRAINING WORKSHOPS

- Refer to [Attachment C](#) – New Technologies
- Refer to [Attachment D](#) – Calendar of Upcoming Events.

ATLANTA REGION

No information of interest to report.

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BOSTON REGION

No information of interest to report.

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CHICAGO REGION

The Federal Energy Management Program's Chicago Regional Office is sponsoring How to Meet Federal Goals – Midwest Workshop on October 28-30 in St. Louis, Missouri. Topics include meeting *Executive Order 13123*, water management and conservation and financing. For more information and to register, visit www.tech-res-intl.com/femp.

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DENVER REGION

The American Council for an Energy Efficient Economy is holding Green Power Options in Denver, Colorado on June 11. Topics include sustainability goals, green power investment, and other “how to” and “lessons learned” sessions when selecting the right renewable energy option. More information is available at www.greenpowermagazine.com.

The Center for Business Intelligence is holding Financing & Optimizing Renewable Energy Projects in Denver, Colorado on June 23-24, 2003. Topics include renewable assets, investment mechanisms, incentives and subsidies for funding renewable energy projects. More information may be found at www.cbinet.com/events/PB363/index.html.

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PHILADELPHIA REGION

The International District Energy Association is sponsoring the District Energy CHP 2003 conference and trade show on June 22-25, 2003 in Philadelphia, Pennsylvania. Topics include business development, campus energy systems, district cooling/operations, sales and marketing, international business briefing, distribution technology and combined heat and power. For more information and to register, visit www.districtenergy.org.

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SEATTLE REGION

The Industrial Water World is sponsoring the Industrial Water Conference 2003, on December 9-11, 2003, in Las Vegas, Nevada. Topics include steam systems, cooling towers, wastewater, pumping systems, boiler feedwater treatment, boilers and environmental compliance. Industrial Water Conference 2003 is accepting abstracts on general application discussions, case studies, or “how-to” topics by Thursday, May 29. For more information, go to www.industrialwaterconference.com.

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STUDIES, REPORTS, AND ANALYSES

SOLAR AND RENEWABLE ENERGY

Plugging in Renewable Energy: Grading the States, Union of Concerned Scientists, May 2003

The report assesses and grades the commitment of each state to support wind, solar, and other renewable energy source policy and development. Research findings reveal that just a “handful” of states are responsible for most of the projected gains in renewable energy; California leads all states with 44 percent of projected new development. The report also gives California and Nevada “passing” grades, while thirty-four states received “failing” grades for their lack of commitment to renewable energy. Thirty states are at or below the national level of 1.8 percent for renewable energy production. To access the report, visit www.ucsusa.org/publication.cfm?publicationID=631.

Commercial Solar Electric Installation Inventory, Solar Electric Power Association, April 2003

The database, compiled by Solar Electric Power Association, inventories commercial, industrial, institutional, and utility owned or sited solar electric systems. Systems from the United States and from around the world are included, allowing for a measure of the success of solar power. Access the database at www.solarelectricpower.org/installation_inventory.

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ALTERNATIVE FUELS AND VEHICLES

Vehicle Buyer's Guide for Fleets, Clean Cities, May 2003

This guide provides a review of alternative fuels and vehicles to help fleet managers and policy makers determine whether the *Energy Policy Act of 1992* affects their fleets. Information is provided on pricing and technical specifications for light- and heavy-duty alternative fueled vehicles (AFV), finding a local alternative fueling station, and researching state AFV purchasing incentives and laws. View the guide at www.ccities.doe.gov/vbg/fleets.

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FEDERAL FACILITIES

Recreation Fees – Information on Forest Service Management of Revenue from the Fee Demonstration Program, General Accounting Office, April 2003.

The report was prepared in response to a request from Scott McNinnis (R/CO), Chair of the House Subcommittee on Forest and Forest Health (Committee on Resources). The report summarizes an analysis performed by GAO was asked to evaluate how the U.S. Forest Service spends revenues collected as a result of the Federal Recreational Fee Revenue Program. The revenue program directs managers of Federal lands to collect fees from visitors primarily to U.S. Park Service and Forest Service sites. Congress is currently considering the future of the fee demonstration program – whether to extend the program or make it permanent. The subcommittee asked GAO to address the following issues:

- How does the Forest Service establish spending priorities for fee demonstration program revenues?
- How has the agency spent the revenues in the past?
- What, if anything, is the Forest Service doing to measure the program’s impact on reducing the deferred maintenance backlog?
- How does the agency account for program revenues?

The GAO analysis involved an examination of nine Forest Service sites. The results reveal that the Forest Service applies revenues to a wide range of projects, including facility maintenance and enhancement as well as non-facility projects in accordance with Federal program guidelines. However, GAO also found that the Forest Service lacks a process for measuring the impact revenues have on reducing the agency's maintenance backlog.

To obtain a copy of the report (GAO-03-470), visit the GAO website at www.gao.gov.

Program Evaluation – An Evaluation Culture and Collaborative Partnership Help Build Agency Capacity, General Accounting Office (GAO), May 2003.

The Senate Republican and Democratic Leadership of the **Subcommittee on Oversight and Government Management, the Workforce, and the District of Columbia (Committee on Governmental Affairs)** asked GAO to **examine the ability of Federal agencies to achieve program goals through effective program management.** The request is related to the President's Management Agenda, which includes five government-wide priorities:

- Strategic management of human capital
- Competitive Sourcing
- Improved Financial Performance
- Expanded Electronic Government
- Budget and Performance Integration

The Administration rates the effectiveness of Federal programs through agency-documented performance and evaluation information (which is tied to priority number 5 – Budget and Performance Integration). Office of Management and Budget annual reviews have determined that approximately 50 percent of Federal agencies cannot demonstrate program results. To address this problem, GAO's analysis included a review of five Federal agencies with diverse missions and program activities. Each agency, demonstrated the ability to systematically collect, analyze, and use data on program results. As a result of this review, GAO identified useful capacity-building strategies that can be adopted by other agencies. GAO found that key ingredients for creating and maintaining an effective effort to evaluate Federal programs includes: establishing an evaluation culture, obtaining quality data, availability of analytical expertise, and the existence of collaborative partnerships. Agencies reviewed by GAO Administration for this analysis included Administration for Children and Families, the U.S. Coast Guard, Department of Housing and Urban Development, National Highway and Traffic Safety Administration, and the National Science Foundation.

To obtain a copy of the report (GAO-03-454), visit the GAO website at www.gao.gov.

Defense Infrastructure – Changes in Funding Priorities and Management Processes Needed to Improve Condition and Reduce Cost of Guard and Reserve Facilities, General Accounting Office, May 2003.

The report was prepared by the General Accounting Office (GAO) as part of the agency's general legislative responsibilities. The authors conducted a review of the condition of U.S. Coast Guard Reserves facilities, the GAO analysis considered the following issues:

- Facility maintenance and construction funding trends and facility conditions.
- Potential for achieving DOD objectives for facility improvements
- Challenges in implementing two potential cost saving initiatives – joint construction projects and real property exchanges

The GAO analysis reveals that the Coast Guard Reserves considers 64 percent of the agency's facilities to be inadequate. The authors recommend that the Department of Defense direct a review and reevaluation of facility priorities and that the Deputy Under Secretary for Installations and Environment pursue a program of joint construction projects among active and reserve military components. For additional details, refer to the GAO web site at www.gao.gov and refer to report number GAO-03-516.

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MISCELLANEOUS

Lighting Control Best Practice Guide for Office Buildings, The Watt Stopper, Inc., May 2003

This publication describes application-specific design, specification and installation guidance for lighting controls in commercial office buildings. The guide is available at www.wattstopper.com or by contacting The Watt Stopper at 800-879-8585.

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ATTACHMENT A

NEW LEGISLATION OF INTEREST TO FEMP

HOUSE

Number	Short title	Date	Sponsor	Status
H.R. 2113	<i>Energy Efficiency Investment Act of 2003</i>	May 15	Lee Terry (R/NE)	Referred to Committee on Ways and Means
	Key Provisions:	Amends <i>Internal Revenue Code of 1986</i> , to allow credit against income tax for certain energy efficient property placed in service or installed in existing principal residence or property used by businesses. Bill allows for credit against tax imposed equal to 25 % of amount paid by taxpayer for qualified energy property placed in service or installed during tax year, effective January 1, 2004.		
H.R. 2138	<i>Department of Environmental Protection Act</i>	May 15	Doug Ose (R/CA)	Referred to Committee on Government Reform
	Key Provisions:	Redesignates EPA as the Department of Environmental Protection (DEP) making DEP an executive department. Officers to be appointed by President and approved by Senate and to include Deputy Secretary, 3 Under Secretaries, Chief Financial Officer, and Inspector General. Within DEP, Bureau of Environmental Statistics to be established to provide environmental quality, related public health, and economic information.		

SENATE

Number	Short title	Date	Sponsor	Status
S. 1149	<i>Energy Tax Incentives Act of 2003</i>	May 23	Charles Grassley (R/IA)	Referred to Committee on Finance
	Key Provisions:	Amends the <i>Internal Revenue Code of 1986</i> , to provide energy tax incentives, and for other purposes. Extends and expands credit for electricity produced from wind, closed-loop biomass, biomass (other than closed-loop biomass), geothermal energy, solar energy, small irrigation power, bio solids and sludge, and municipal solid waste. Establishes new credit rate for new facilities that utilize electricity produced and sold after December 31, 2003. Increases new qualified fuel cell motor vehicle credits by \$1,000 to \$10,000, depending on model year city fuel economy and weight class. Establishes credit equal to 50% of the amount paid or incurred by the taxpayer during the taxable year for the installation of qualified clean-fuel vehicle refueling property; retail property credit shall not exceed \$30,000 and residential		

Number	Short title	Date	Sponsor	Status
	property credit shall not exceed \$1,000.			
	Establishes credit for retail sale of alternative fuels as motor vehicle fuel. Establishes small ethanol producer credit of \$60,000,000.			
	Establishes biodiesel mixture credit equal to sum of biodiesel mixture rate (\$1.00) for each qualified biodiesel mixture and number of gallons of such mixture.			
	Establishes new energy efficiency home credit equal to \$1,000 for 30% home and \$2,000 for 50% home. 30% home has projected level of annual heating and cooling energy consumption at least 30% less than the annual level of heating and cooling energy consumption of a qualifying new home.			
	Establishes credits for efficient clothes washers and refrigerators.			
	Establishes energy efficient commercial buildings deduction amount equal to energy efficient commercial building property expenditures made by such taxpayer with respect to the construction or reconstruction of such building, not to exceed the product of \$2.25 and square footage of building.			
	Establishes three-year recovery period for depreciation of qualified energy management devices and qualified water submetering devices.			
	Establishes energy credit for combined heat and power system property.			
	Establishes credit for energy efficiency improvements to existing homes.			

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ATTACHMENT B

HEARINGS SCHEDULE

HOUSE – APPROPRIATIONS

No activities of interest have been scheduled.

HOUSE – AUTHORIZATIONS/OVERSIGHT

No activities of interest have been scheduled.

SENATE – APPROPRIATIONS

No activities of interest have been scheduled.

SENATE – AUTHORIZATIONS/OVERSIGHT

No activities of interest have been scheduled.

CONFERENCE COMMITTEE NEGOTIATIONS/FLOOR VOTES

Date/Committee	Issue	Time/Location
<i>Week of June 2</i> <i>(Tentative)</i>	<i>Senate Floor Consideration S. 14 – Energy Policy Act of 2003</i>	TBA

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ATTACHMENT C – NEW TECHNOLOGIES

For informational purposes only. Listing does not imply endorsement.

Technology	Manufacturer	Manufacturers Claim	Contact
HVAC			
GeneSys™ Air-cooled Chiller	McQuay International	Monitors power quality; minimizes component stress; 10.0 to 10.6 EER and up to 14.0 EER at part-load IPLV	www.mcquay.com
Oil-free Air-conditioning Compressor	Turbocor Inc.	Saves over 30 percent in operating costs; achieves IPLV efficiencies over 30 percent better than traditional compressors in its capacity range	www.turbocor.com
HSX19 Air Conditioner	Lennox Industries Inc.	Efficiency rating of up to 19.2 SEER	www.lennox.com
R Model Boiler	Parker Boiler	82 percent to 84 percent efficiency, low NOx Models 85 percent efficiency	www.parkerboiler.com
N-Vintage Water Source Heat Pump	Mammoth	Meets new minimum-efficiency requirements under ASHRAE Standard 90.1	www.mammoth-inc.com
Ultra 155 and Ultra 230 Boiler	Weil-McLain	Maximizes efficiency by measuring and responding to the data parameters of a heating system	www.weil-mclain.com
eForce™ Commercial Gas Water Heater	Bradford White Corporation	98.5 percent thermal efficiency	www.bradfordwhite.com
LIGHTING			
Border Tube System	Gelcore	Provides energy savings of up to 85 percent over neon	www.gelcore.com
T8 Watt-Miser Lamp/Ultra Watt-Miser System	GE Lighting	Uses 6 percent less energy than a standard T8 with no performance loss; T8 fluorescent with Ultra ballast saves 11 percent in energy over standard systems	www.gelighting.com
Compact Fluorescent Future Flood	RAB Electric	Uses 42W of fluorescent to produce an energy saving white light	www.rabweb.com
E-Star™ Electronic Ballast	Advance Transformer Co.	Meets requirements of the ENERGYSTAR® Residential Lighting Fixture Program	www.advancetransformer.com

Technology	Manufacturer	Manufacturers Claim	Contact
Multi-Metal Ignitek™ Lamp	EYE Lighting International of North America	Saves 40W of power per lamp compared with standard 400W lamps, translating into energy savings of \$80 per lamp over its lifetime	www.eyelighting.com
WN-100 Occupancy Sensor	The Watt Stopper, Inc.	Automatically turns off lights and turns on a nightlight when a room is vacant for defined period of time	www.wattstopper.com
Ignitron™ EN/ES Lamp	EYE Lighting International of North America	Energy saving high pressure sodium (HPS) lamp saves 40W per lamp compared to standard HPS lamps, or \$96 over the lamp's life	www.eyelighting.com
LED System	Westinghouse Lighting Corporation	Energy efficient; can be used in any application in which incandescent lamps would normally be used	www.westinghouselighting.com
3-way CFL	Technical Consumer Products	Optimizes bulb life for 10,000 hours average life; provides energy savings, featuring lower currents	www.tcpi.com
Track Head and Track Lighting Kit	Technical Consumer Products	10,000 average lamp life and 50,000 average ballast life; lasts 10 to 13 times longer than incandescent lights	www.tcpi.com
PulseStrike™ Metal Halide Lamp	Ushio America, Inc.	Compared to traditional metal halide lamps, produces higher lumens per watt with longer life and greater energy savings	www.ushio.com
Sure-Lights® UX Exits	Cooper Lighting	ENERGYSTAR®	www.cooperlighting.com
E-Star™ Electronic Ballast	Advance Transformer Company	Meets ENERGYSTAR® efficacy requirements	www.advancetransformer.com
ELV Family of Low-Voltage Controllers	Thomas Research Products	Doubles lamp life, reduces energy consumption	www.thomasresearchproducts.com
LED LightTile Luminaire	Ardee Lighting	Extremely low energy consumption and 60,000 hour average life	www.ardeelighting.com
High-brightness LED Package	Lamina Ceramics	Uses Low-Temperature Co-fired Ceramic on Metal which allow the LED package to replace less efficient incandescent bulbs	www.laminaceramics.com
Quint-Volt™ Ballast	Venture Lighting International	Improved system efficiency	www.venturelighting.com
DynaVision™ Electronic Ballast	Advance Transformer Company	Provides opportunities for operating cost reductions through energy savings	www.advancetransformer.com
PL-H Compact Fluorescent System	Royal Philips Electronics	Output of up to 9,000 lumens is almost double that of other PL compact fluorescent systems; long life	www.usa.philips.com

Technology	Manufacturer	Manufacturers Claim	Contact
MasterColor® 320W Pulse Start Lamp	Royal Philips Electronics	Similar energy consumption and color quality to other high output fluorescent systems, with improved lumen maintenance	www.usa.philips.com
Silhouette™ T5 Fluorescent Lamp	Royal Philips Electronics	High efficacy and high lumen output; average rated life of 20,000 hours	www.usa.philips.com
Marathon® Compact Fluorescent Lamp	Royal Philips Electronics	Provides long life (50 percent more than a standard Universal); ENERGYSTAR® qualified	www.usa.philips.com
Marathon® Reflector Flood Lamp	Royal Philips Electronics	7,000-hour average rated life; ENERGYSTAR® qualified	www.usa.philips.com
Marathon® Vanity Globe Lamp	Royal Philips Electronics	uses 70 percent less energy than a similar incandescent globe; 7,000-hour average rated life; ENERGYSTAR® qualified	www.usa.philips.com
Marathon® Mini Decorative Twister Lamp	Royal Philips Electronics	6,000-hour average rated life; ENERGYSTAR® qualified	www.usa.philips.com
Marathon® Mini-Household Lamp	Royal Philips Electronics	Smaller size provides increased flexibility in using energy-saving light bulbs in a greater number of household applications; 6,000 hour average rated life; ENERGYSTAR® qualified	www.usa.philips.com
PL-H Compact Fluorescent Lamp	Royal Philips Electronics	Provides up to 9,000 lumens, almost double that of other PL compact fluorescent lamps; long life	www.usa.philips.com
HPR™ 575/115 Tungsten Halogen Lamp	Osram Sylvania	Increased light output results in fewer fixtures and reduces energy consumption	www.sylvania.com
PAR20 CAPSYLITE IR lamp	Osram Sylvania	Average rated life is 66 percent longer than standard lamps	www.sylvania.com
PENTRON® ECO® and PENTRON® HO ECO® Lamp	Osram Sylvania	Highly efficient	www.sylvania.com
SOFT WHITE DULUX EL ENERGY STAR® Series	Osram Sylvania	Offers opportunities for energy cost savings	www.sylvania.com
OCTRON® 28 Super Saver Lamp	Osram Sylvania	Operates at 12 percent lower power than standard lamp; when operated on the low power PSX ballast, power consumption is lowered by 24 percent compared to low power IS systems	www.sylvania.com

Technology	Manufacturer	Manufacturers Claim	Contact
OCTRON XP CURVALUME SUPERSAVER PSX System	Osram Sylvania	Provides longer life while using considerably less energy than comparable lighting solutions; compared to T12 energy saving lamp and ballast system, system provides 40 percent energy savings, 33 percent longer lamp life	www.sylvania.com
ENERGY MANAGEMENT TOOLS			
GTD20™ Generator Transfer Device	Bodine	Allows emergency lighting to operate on switched circuitry; minimizes energy waste	www.bodine.com
Three-phase Lighting Control	Energy Automation Systems	Two-step energy level setting automatically steps between two energy levels per lighting circuit; each circuit has its own individual step points for savings	www.energyautomation.com
BACnet Controller	Andover Controls	Meets ASHRAE standard 135-2001	www.andovercontrols.com
Integrated Lighting Automation System	Lutron	Provides load-shedding to reduce peak energy demand	www.lutron.com
ULTRAVAC™ Infrared Heater Control	Roberts-Gordon	Modulates burner input rate with outdoor air temperature to match the heating system's input to building's heating requirement	www.rg-inc.com
HID Lamp and Ballast Kit	EYE Lighting International of North America	Updates HID lighting systems for energy savings	www.eyelighting.com
Rack-mount ProtectNet®	APC	Minimizes downtime with a modular, scalable design to solve surge problems over network data lines	www.apc.com
Advanced Lighting System with PulseBloc®	Sportlite, Inc.	Allows stepped dimming which can save energy	www.sportlite.com
IntelliCon® Monitor	Intellidyne	Analyzes the load on a heating or cooling system and modifies system cycle accordingly	www.intellidynellc.com
MISCELLANEOUS			
PowerSaver™ Ultra Efficiency Transformer	Jefferson Electric	ENERGYSTAR®; meets NEMA TP-1 standards for energy efficiency	www.jeffersonelectric.com
WhisperFit™ Fan	Panasonic	ENERGYSTAR® compliant	www.panasonic.com/building
OptiGen Generator	Baldor Electric Company	Adjustable-speed generator operates at lower RPMs while still maintaining desired output frequency	www.baldor.com

Technology	Manufacturer	Manufacturers Claim	Contact
MIRO-Silver® Light-reflective Surface	Alanod®	Increases energy-efficiency of liquid crystal displays, light-emitting diodes, and solar lighting	www.alanod.com
Solar Attic Fan	Natural Light	Powered entirely by solar energy	www.natural-light-skylights.com
InterSeptor Series of Centrifugal Separators	Process Efficiency Products	Improves heat transfer efficiency and water conservation in cooling towers	www.pepfilters.com
Notevision PG-A10S-SL LCD Projector	Sharp Electronics Corporation	Low Power Mode extends lamp life from 3000 to 4500 hours	www.sharp-usa.com

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ATTACHMENT D

MEETINGS, CONFERENCES, AND OTHER EVENTS

NOTE: New events are highlighted in **blue**.
DOE-sponsored events are highlighted in **red**.

ATLANTA REGION

DATE	EVENT	SPONSOR
June 19-20, 2003	Strategies for Healthier and More Productive Buildings Atlanta, GA	Federal Energy Management Program
June 23-26, 2003	2003 National Workshop on State Building Energy Codes Atlanta, GA	Department of Energy
July 17-19, 2003	2003 Bell Conference: Ecosystems and Enterprise: Perspectives on Education for Sustainable Business Fort Lauderdale, FL	World Resources Institute
August 8-12, 2005	Solar World Congress 2005 Orlando, FL	International Solar Energy Society
August 17-20, 2003	Energy 2003 Orlando, FL	Federal Energy Management Program
November 12-13, 2003	World Energy Engineering Congress (WEEC) Atlanta, GA	Association of Energy Engineers
November 12-14, 2003	High Performance Facilities Expo 2003 Atlanta, GA	Association of Energy Engineers

BOSTON REGION

DATE	EVENT	SPONSOR
May 27-30, 2003	14 th Global Warming Conference Boston, MA	Global Warming International Center
June 9-11, 2003	Multifamily Buildings: Healthy, Durable, Energy Efficient New York City, NY	Department of Energy
June 23-24, 2003	Electricity 101: The Essential Seminar on Power Market Restructuring Boston, MA	Energy Seminars, Inc.
July 29-31, 2003	Waterpower XIII Buffalo, NY	HCI Publications

DATE	EVENT	SPONSOR
July 29-August 1, 2003	2003 ACEEE Summer Study on Energy Efficiency in Industry: Sustainability and Industry – Increasing Energy Efficiency and Reducing Emissions Rye Brook, NY	American Council for an Energy Efficient Economy
October 14-15, 2003	3 rd Annual Empire Energy and Environmental Exposition (E4) Albany, NY	Environmental Business Association of New York State, Inc.

CHICAGO REGION

DATE	EVENT	SPONSOR
May 29-30, 2003	Greening Rooftops for Sustainable Communities Chicago, IL	Green Roofs for Healthy Cities/City of Chicago
May 29-31, 2003	Sustainability Forum St. Paul, MN	Environmental Protection Agency
June 18-19, 2003	Design Strategies for Low-Energy, Sustainable, Secure Buildings Chicago, IL	Department of Energy
June 21-23, 2003	Renewable Energy and Sustainable Living Fair Custer, WI	Midwest Renewable Energy Association
July 12-16, 2003	Energy Conference for Educators Chicago, IL	National Energy Education Development Project
July 21-25, 2003	Fundamentals of Energy Auditing Madison, WI	University of Wisconsin's College of Engineering
August 9-10, 2003	Illinois Renewable Energy Fair Oregon, IL	Illinois Renewable Energy Association
September 18-20, 2003	Greening of the Campus V: Connecting to Place Muncie, IN	Ball State University
October 15-18, 2003	2003 Excellence in Building Conference & Exposition Chicago, IL	Energy and Environmental Building Association
October 28-30, 2003	How to Meet Federal Energy Goals -- Midwest Workshop St. Louis, Missouri	FEMP

DENVER REGION

DATE	EVENT	SPONSOR
May 29-31, 2003	Green Design: Ideas to Inspire Environmentally Responsible Facilities Construction Boulder, CO	National Association of College Auxiliary Services/Society for College and University Planning
June 4-5, 2003	In-Depth Introduction to Electricity Markets Denver, CO	Power Marketing Association
June 11-13, 2003	Under the Big Sky Greening Conference Big Sky, MT	Headwaters Cooperative Recycling Partnership/Ethanol Producers and Consumers
June 11, 2003	Green Power Options Denver, CO	American Council for an Energy Efficient Economy
June 16-19, 2003	19th Annual International Fuel Ethanol Workshop and Trade Show Sioux Falls, SD	BBI International
June 21-26, 2003	Solar 2003: America's Secure Energy Austin, TX	American Solar Energy Society
June 23-24, 2003	Financing & Optimizing Renewable Energy Projects Denver, CO	The Center for Business Intelligence
July 19-23 and 26-30, 2003	Energy Conference for Educators July 19-23 in Galveston, TX July 26-30 in Denver, CO	National Energy Education Development Project
July 27-30, 2003	Summer Committee Meetings Denver, CO	National Association of Regulatory and Utility Commissioners
September 13-14, 2003	4th Annual Rocky Mountain Sustainable Living Fair Fort Collins, CO	Rocky Mountain Sustainable Living Association
September 17-20, 2003	Architectural Engineering 2003: Building Integration Solutions Austin, TX	Architectural Engineering Institute
September 26-28, 2003	Renewable Energy Roundup and Green Living Fair Fredericksburg, TX	<u>Texas Renewable Energy Industries Association</u> and <u>Texas Solar Energy Society</u>
September 28-29, 2003	Solar Fiesta: Building the Energy Pathways Albuquerque, NM	New Mexico Solar Energy Association
September 29-October 1, 2003	Building for Greener Communities National Conference Nebraska City, NE	Firewise Communities
October 19-21, 2003	World Workplace and Facilities America Conference Dallas, TX	International Facility Management Association

DATE	EVENT	SPONSOR
October 21-23, 2003	Laboratories for the 21st Century 2003 Annual Conference Denver, CO	Department of Energy
December 11-12, 2003	Business Energy Solutions Expo 2003 New Orleans, LA	Association of American Engineers

PHILADELPHIA REGION

Date	Event	Sponsor
April 30-May 2, 2003	CHP On the Move: Meeting State, Federal, and International Challenges Washington, DC	United States Combined Heat and Power Association
May 1-3, 2003	Building the Town Green Conference and Trade Show Philadelphia, PA	Delaware Green Building Council
May 8, 2003	Third Annual Green Power: Turn it On! Getting to 10% Conference Harrisburg, PA	PennFuture
May 8-9, 2003	Real-World Sustainable Solutions for EH&S Specialists Washington, DC	ABS Consulting
May 10-14, 2003	2003 Tour de Sol: The Great American Green Transportation Festival Burlington County, NJ; Trenton, NJ; Philadelphia, PA; Washington, DC	Northeast Sustainable Energy Association
May 22, 2003	Congressional Fuel Cell Expo 2003 Washington, D.C.	U.S. Fuel Cell Council
May 28-29, 2003	Fuel Cells Summit VII College Park, MD	Department of Energy
June 4-7, 2003	2003 Mid-Atlantic Sustainability Conference Trenton, NJ	New Jersey Clean Energy Program
June 10-12, 2003	Electric Exposition and Conference	Primedia
June 16-20, 2003	Linking Products and Service: Transcending Sustainability Charlottesville, VA	University of Virginia
June 22-25, 2003	District Energy CHP 2003 Philadelphia, PA	International District Energy Association
October 12-14, 2003	2003 AIVC BETEC Conference: Ventilation, Humidity Control and Energy Washington, DC	Building Environment and Thermal Envelope Council
November 12 - November 14, 2003	2003 USGBC International Green Building Conference & Expo Pittsburgh, PA	U.S. Green Building Council

SEATTLE REGION

DATE	EVENT	SPONSOR
May 29-31, 2003	The Sustainability Forum Portland, OR	Oregon Forest Resources Institute, Environmental Protection Agency and many others
June 1-4, 2003	2003 EEI Annual Convention/Expo Honolulu, Hawaii	Edison Electric Institute & Canadian Electricity Association
June 8-12, 2003	Building Bridges: Prospecting for Solutions and Golden Opportunities Sacramento, CA	National Fuel Funds Network
June 23-26, 2003	Fuel Cell Technology Institute Irvine, CA	National Fuel Cell Research Center
July 25-27, 2003	Life Cycle Assessment for Building Designers Dexter, OR	Lost Valley Educational Center
August 8-10, 2003	Southwest Renewable Energy Fair Flagstaff, AZ	Greater Flagstaff Economic Council
August 23-24, 2003	SolFest 2003 Hopland, CA	Solar Living Institute
September 17-18, 2003	21 st West Coast Energy Management Congress, San Diego, CA	Association of Energy Engineers
September 19-21, 2003	Northwest Renewable Energy Festival Walla Walla, WA	Whitman College
October 1-3, 2003	Sustainable Energy Expo and Conference Los Angeles, CA	IIR Exhibitions
October 5-6, 2003	Olympic Energy Expo Port Angeles, WA	Alternative Technologies Seminars
October 12-15, 2003	GIN2003: Innovating for Sustainability San Francisco, CA	Greening of Industry Network
November 11-14, 2003	2003 Business for Social Responsibility Annual Conference: Building and Sustaining Solutions Los Angeles, CA	Business for Social Responsibility
December 9-11, 2003	Industrial Water Conference 2003 Las Vegas, NV	Industrial Water World

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